

POLYMER ENCAPSULATED CERAMIC SUPERCONDUCTORS

Abstract of the Disclosure

The invention features a superconducting ceramic conductor for use in a preselected fluid cryogen. The conductor includes a composite ceramic superconducting wire having an outer surface along its length and a sealing structure hermetically surrounding the outer surface to prevent the cryogen from infiltrating into the wire and degrading its superconducting properties. The sealing structure includes a cured polymer layer encircling the outside surface of the wire.

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